

# Foundation Fieldbus

*Eco Style Single Pair IEC61158-2 (PVC)*



## Cable Design

### Wire

Conductor Stranded tinned copper wire 7/0,40mm (18awg)  $\varnothing$  1,20 mm  
 Insulation Foam Polyolefin  $\varnothing$  2,30 mm

### Core

Pair 2 wires twisted to a pair (BU-OG)  
 Drain Wire tinned copper wire  
 Screen Aluminium/polyester tape overlapped, 100% coverage

Outer Jacket Polyvinylchloride (PVC) Orange  $\varnothing$  7,00  $\pm$  0,20 mm

## Characteristics

- Sunlight resistance acc. to UL 1581 section 1200

## Specification

Part Number	Type
6581802	Foundation Fieldbus cable Type A IEC 61158-2 PVC, 2x18AWG7 (PVC)

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Eco Style Single Pair IEC61158-2 (PVC)

## Electrical Data @20°C

Conductor resistance (loop)	max.	43,6	Ohm/km
Screen resistance	nom.	30	Ohm/km
Mutual capacitance	nom.	60	nF/m
Inductance	nom.	0,7	mH/km
Capacitance unbalance to earth	max.	4	nF/m
Impedance at f = 31.25 kHz		100±20	Ohm
Attenuation at f = 39 kHz	max.	3,0	dB/km
Propagation delay change (f = 7.9 kHz - 39 kHz)	max.	1,7	µs/km
Test voltage Urms (core : core)		2000	V
Test voltage Urms (core : screen)		2000	V
Operating voltage		300	V

## Mechanical & Thermal Characteristics

Temperature range	during operation	-30 ~ +70 °C
Temperature range	during installation	-5 ~ +50 °C
Min. Bending radius		7,5 x Ø
Weight (approx.)		85 kg/km

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